

# *The Girvan Institute*

presented

at

Conference on Turning Goals into Reality

Santa Clara, California

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by

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President and Chief Executive Officer

# *Ames Research Center*

## *Employees*

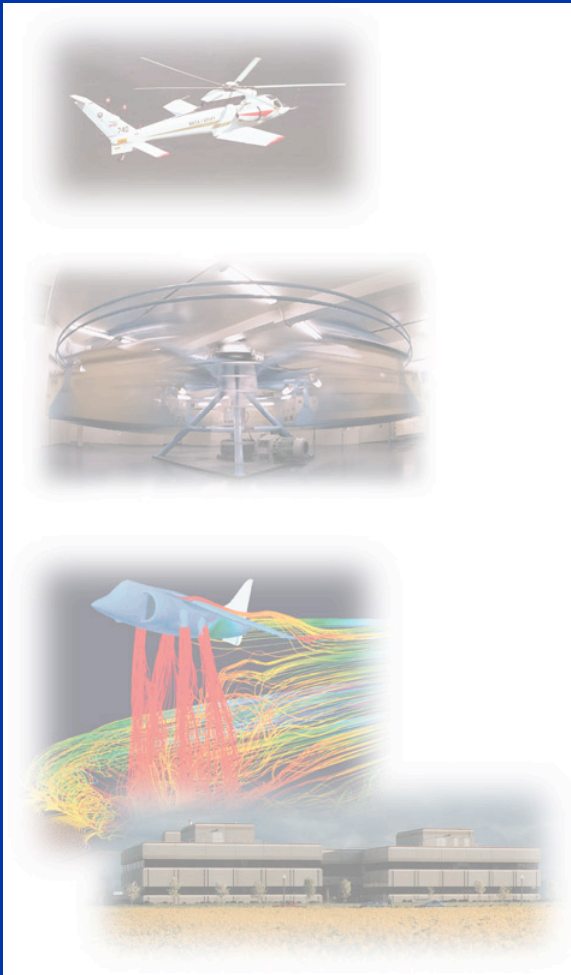
- *1500 Civil Servants*
- *2000 full-time onsite contractors*
- *250-500 college students/detailees*

*2002 Budget, \$700M+*

# *Ames Research Center*

- *2000 acres of federal property under authority of NASA*
  - *500 acres, original NASA Ames (1939)*
  - *1500 acres, transferred from Navy in 1994*
- *Multi-use facility with multiple resident agencies*
  - *Limited-use federal airfield*
  - *NASA Research Park (NRP)*
- *Ames is host agency*

# ***Center Responsibilities***



**Aviation Operations Systems  
(AvSTAR)**

**Computing, Information and  
Communications Technologies**

**Astrobiology**

**Fundamental Biology**

**Biomolecular and Nanotechnology**

**Astronomy (SOFIA)**

**Runway-Independent Aircraft**

**Management of Large Computational  
Systems**

**Computational Simulation**





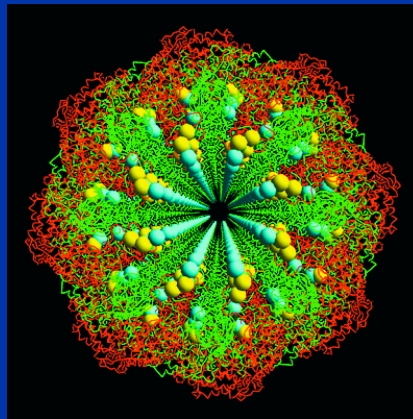
# ***Technology Convergence***

## ***Intelligent, Evolvable, Adaptive Systems***

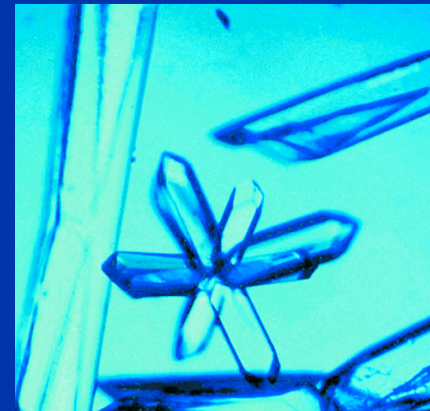
### **Information Technology**



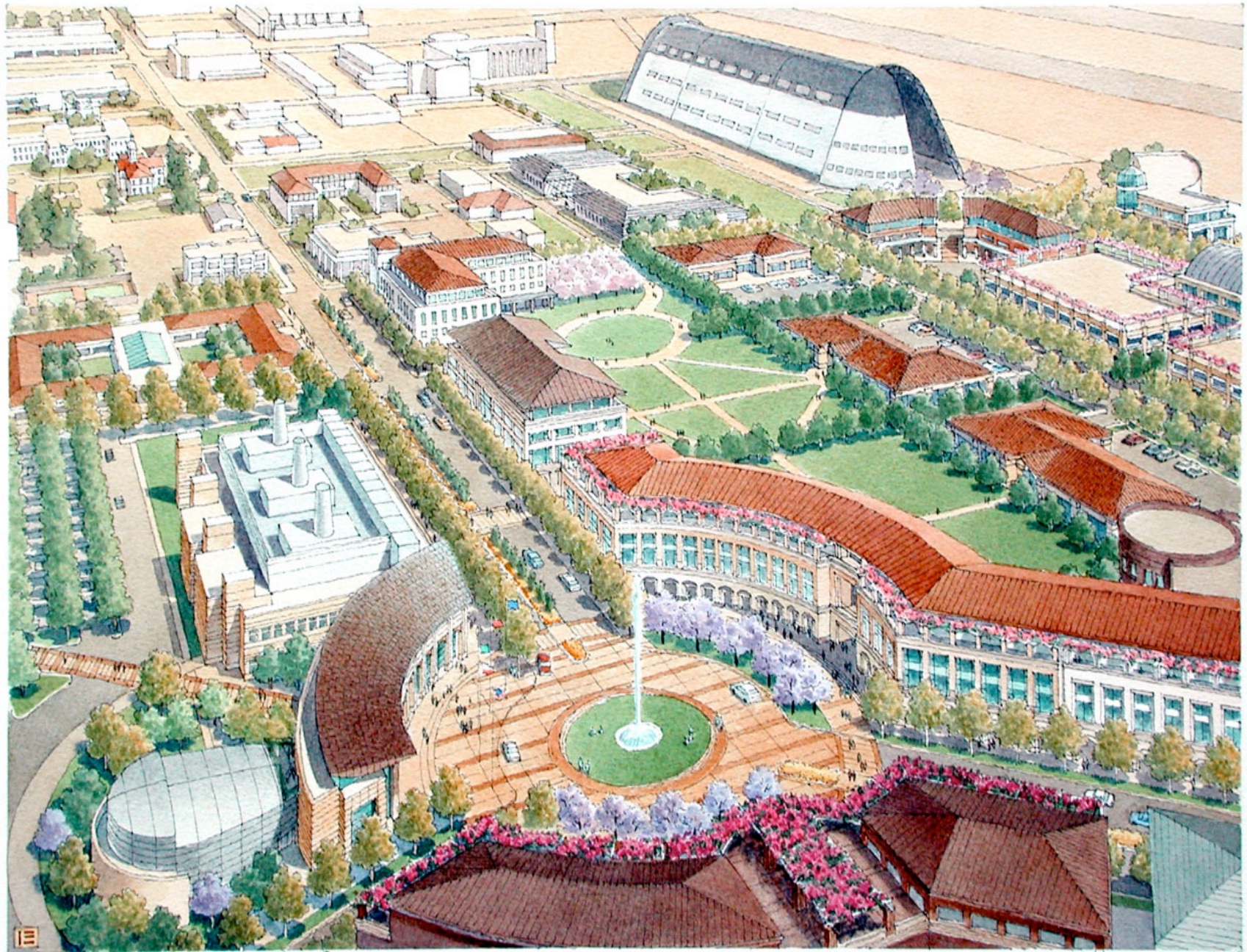
### **Nanotechnology**



### **Biotechnology**









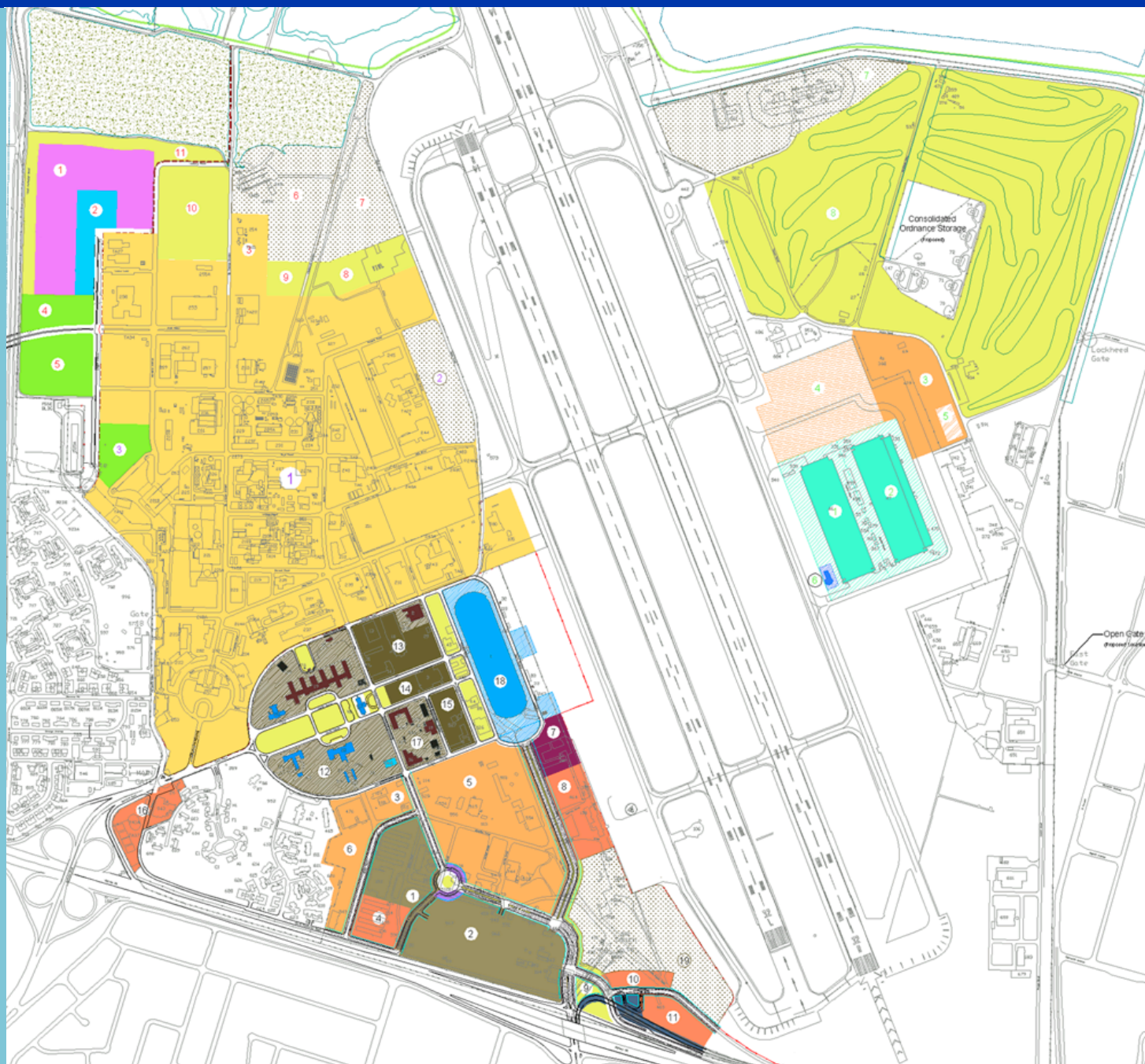
# *Goals for the NASA Research Park*

*A world-class, campus for research; technology development, transfer, and commercialization; education; enterprise acceleration; and workforce development.*

*A campus shared by government organizations, academic institutions, non-profit organizations, financial institutions, and commercial-industrial entities.*

# *NASA Research Park*

- *3.5M sq ft (2M new, 1.5M existing) on 257 acres*
- *Mix of office, lab, classroom and housing*



# *NRP University Partners*

- *University of California at Santa Cruz*
- *Foothill De Anza Community College District*
- *San Jose State University*
- *Carnegie Mellon University*
- *Santa Clara University*
- *Clark University*

# *Universities Working Components*

## *University of California*

- *Designated UC Santa Cruz as lead for the UC System to partner with NASA*
- *Designated the NRP as preferred Silicon Valley site for regional campus for education and research*
  - *NASA access to UC system resources for collaborative research*
    - *Joint tenured appointments as appropriate*
    - *Sharing of graduate students resources*
    - *Formation of joint research teams*
    - *Creation of new and unique collaborative research facilities*
  - *Participation in development of CASC Teacher Institute*
  - *Workforce development for high tech employment*
- *Collaborating with Carnegie Mellon University*
- *Formed consortium of San Jose State University and Foothill-DeAnza Community College District for high-tech education initiatives*







*Girvan Institute of Technology*

# *The Girvan Institute of Technology*

- *Established as a non-profit, public-benefit corporation*
- *Chartered to support the realization of the goals of the Ames Research Center for the NASA Research Park*

# *The Girvan Approach*

- *To establish partnerships with researchers, technology developers, investors, and entrepreneurs through an independent corporate entity*
- *In the process, to take advantage of the flexibility available to corporations in the private sector “to do what it takes to get the job done.” (Ref. The President’s Management Agenda for FY 2002)*

# ***NRP/Girvan Partners***

***Education Partners***

***Strategic Partners,***

***e.g., partners in R&D,  
partners in technology  
exchange***

***Financial Partners,***

***e.g., private equity firms***

***Business-Support Partners,***

***e.g., law firms, accounting  
firms***

# *The Center for R&D*

- *Foster and facilitate joint projects of R&D (Government, universities, private sector)*
- *Move technologies from government and university labs towards commercial-industrial applications, reducing technological risk.*
- *Move technologies from the commercial-industrial sector towards government applications.*
- *Strive to compensate, in part, for the elimination of so many industrial research laboratories*

# *Center for Technology Exchange*

- *Develop extensive pool of intellectual property*
- *Package technologies for presentation to interested parties, e.g., potential investors*
- *Provide two-way communications between technology developers and potential “exploiters” of technologies under development*

# *Center for Enterprise Acceleration*

- *Provide services to transfer and license technologies*
- *Facilitate a range of business services for companies that undertake to build businesses based upon technologies made available through the NRP*
- *Leverage Federal resources and private equity in support of ventures based upon these technologies*

## *Education & Workforce Development*

- *Make use of the myriad activities in research, technology development, technology applications, and high-tech business in cooperative programs of education and workforce development.*
- *In particular, provide hands-on experience in high-tech projects and businesses*



# THE TEAM

